

## **ABSTRACT**

An analyzer reads biological probes arranged in a probe pattern on a slide carried by a slide carriage. Each probe may or may not generate a probe signal, which is typically fluorescent light, to indicate prior exposure to a predetermined substance or absence of such prior exposure. A detector includes sensors arranged in a first pattern.

- 5 The probe pattern is denser than the first pattern and includes plurality of first patterns. The detector can sense multiple subsets of the probes within a probe pattern. The probes are contained in wells configured to facilitate reading of the probes, and alignment indicia may be used to check alignment of the slide with the detector.